ELECTRONICS



TVS/ESD Arrays

RLSD92AxxxC Series



Specifications are subject to change without notice.

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TVS/ESD Arrays - RLSD92AxxxC Series

Features

- 150 Watts peak pulse power (tp = 8/20µs)
- Transient protection for data lines to IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC 610004-4 (EFT) 40A (tp = 5/50ns) Cable Discharge Event (CDE)
- Ultra-small package (1.0 x 0.6 x 0.5mm)
- Protects one data or I/O line
- · Low clamping voltage
- · Solid-state silicon-avalanche technology

Mechanical Characteristics

- SOD-923 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel per EIA 481
- Lead Finish: Matte tin
- RoHS Compliant

Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

Life Support Note

- Not Intended for Use in Life Support or Life Saving Applications
- The products shown herein are not designed for use in life sustaining or life saving applications unless otherwise expressly indicated

Pinout and Functional Block Diagram





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Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (tp =8/20µs)	Ppk	150	Watts
Peak Pulse Current (tp = 8/20µs)	Ірр	4	А
ESD voltage (HBM contact)	V _{ESD}	±8	Kv
ESD voltage (AIR contact)	V _{ESD}	±15	Kv
Operating Temperature	Тј	-55 to +125	°C
Storage Temperature	TSTG	-55 to +150	°C

Electrical Characteristics Per Lin (@ 25°C Unless Otherwise Specified)

Diss	Peak Power Dissipation @8/20µS	Reverse Stand-Off Voltage	Peak Pulse Voltage @8/20µS	Peak Pulse Current @8/20µS	Reverse Leakage @Vrwm	Maximum Capacitance @1MHZ
Type Number	Pppm	Vrwm Vc@IPP	IPP	IR@Vrwm	Со	
-		Max	VC@IPP	IFF	Max	Max
	W	V	V	А	μΑ	pF
RLSD92A031C	100	3.3	10	1	2.5	30
RLSD92A051C	100	5.0	12	1	1	15



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Typical Characteristics



Clamping Voltage vs. Peak Pulse Current



£ % of Rated Power or I Ambient Temperature - T _A (°C)

Power Derating Curve







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Package dimension SOD-923



SOLDERING FOOTPRINT*



unit(mm)

	Dimensions						
DIM		Inches			Millimeters		
	Min	Nom	Max	Min	Nom	Max	
А	0.013	0.015	0.016	0.34	0.37	0.40	
В	0.006	0.008	0.010	0.15	0.20	0.25	
С	0.003	0.005	0.007	0.07	0.12	0.17	
D	0.030	0.031	0.038	0.75	0.80	0.85	
E	0.022	0.024	0.026	0.55	0.60	0.65	
Н _Е	0.039	0.039	0.041	0.95	1.00	1.05	
L	0.002	0.004	0.006	0.05	0.10	0.15	



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Part Number Code



Tape and reel



Ordering Information

Part Number	Package	Min. Order Qty.
RLSD923AxxxC	SOD-923	3000pcs

B-B

Warehouse Storage Conditions of Products

Storage Conditions:

- 1. Storage Temperature: -10°C~+40°C
- 2. Relative Humidity:≤75%RH
- 3. Keep away from corrosive atmosphere and sunlight.
- 4. Period of Storage: 1 year



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